

Laser characteristics of active medium LiLu_{0.7}Y_{0.3}F₄:Ce³⁺ in ultra-short pulse mode

Farukhshin I., Nizamutdinov A., Semashko V., Korableva S.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. We have obtained the single pulse laser oscillation with 400 ± 10 ps pulse duration at 311 nm from LiLu_{0.7}Y_{0.3}F₄:Ce³⁺ crystal with 6 ns laser pump at 289 nm. We expect this due to passive Q-switch by means of pump induced color centers which absorb laser radiation and determine the intensity discrimination of laser pulses with contrast of about 1,8.

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